Product Release Information

Iomega® StorCenter™ px4-300r Network Storage Array, Server Class Series

Description

The Iomega® StorCenter™ px4-300r Network Storage array is a high performance **Server Class** rackmount array that is ideal for small-to medium-sized businesses and distributed enterprises for advanced data protection and local and remote content sharing. Powered by EMC ® storage technology and with up to 12TB of storage capacity, including a diskless option, the px4-300r comes in a space-saving 1U form factor that is better, faster and more reliable for your mission critical data.

Scheduled Availability – February 2012.

Features

Capacity: 0 – 12TB. 4 x SATA HDD bays. Empty bays are fitted with a drive carrier. Carrier can accommodate 2.5" and 3.5" drives. Drives are available from Iomega or may be purchased from the approved vendor list.

- Server Class hard drives are used to ensure higher reliability and performance. These drives are designed to better handle rotational vibration and continuous operation for mission critical applications. Ideal for video surveillance applications

SSD Support: For IO intensive applications, the px4-300r can be fitted with solid state drives to boost performance.

RAID Support: RAID 1, 10, and 5, with hot spare, automatic RAID rebuild and hot swap. RAID 0 and JBOD mode also available.

Network File Protocols Supported: CIFS/SMB/Rally (Microsoft), NFS (Linux/UNIX), AFP/Bonjour (Apple), FTP, SFTP, TFTP, HTTP, HTTPS, WebDAV, Windows DFS, SNMP.

Dual Gigabit Ethernet connectivity with high performance embedded architecture.

Dual Power Supply Capable – Simply add a second accessory power supply for 1+1 redundancy. Ships with a single power supply.

iSCSI target provides block-level access for the most efficient storage utilization, especially for backup, database and email application performance. It can be used in parallel with file-level storage access via CIFS/NFS. Includes support for SCSI-3 persistent reservations.

High-Performance

- Server Class Hard Drives
- Solid state drives (optional)
- Dual Core Intel Celeron Processor
- 2GB memory
- Dual GbE NICs

Flexible Configurations

- Diskless option, bring your own drives
- Storage pools with RAID expansion, migration and hot spares
- Advanced RAID levels including Hot Spare

Server-class Pedigree: Server class drives; certified for Citrix® XenServer™5.6, VMware® vSphere 5.0, Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2. EMC® E-Lab tested, and Symantec Backup Exec. Atmos cloud backup support

Business-class features: Windows Active Directory Trusted Domains, Microsoft Cluster Server and Hyper-V Live Migration support

Advanced Networking Capabilities:

- NIC bonding for failover and load balancing including 802.3ad link aggregation.
- Jumbo frame support for 4000 and 9000 byte payloads.
- VLAN Tagging capability to IEEE 802.1Q standard.
- iSCSI persistent reservations for clustered Microsoft environments.

Data Replication / Device to Device Data Copy Jobs:

- Easily copy files to and from attached USB drives or any network share – including Iomega Personal Cloud locations – using the secure rsync or CIFS protocol.
- Define your Copy Job to copy/synchronize files to and from connected drives and/or any other shared storage on your network.
- Schedule jobs to run on a predetermined schedule.

Expandability: Add storage capacity by connecting external USB hard disk drives. Supports read/ write on Fat32, NTFS, ext2/ext3, **or** HFS+ formatted drives.

Application Manager: Third party applications can be installed using the embedded application manager**.**

Data organization and access: Windows DFS organizes folders and files on a network, such that they appear to be all in one directory tree on a single Iomega StorCenter system, even if the folders reside on many devices in many different locations. WebDAV (Web-based Distributed Authoring and Versioning) enables viewing, adding, or deleting files on a StorCenter from the web, via HTTP or HTTPS for added security.

Power Savings:

- Automatic hard drive spin-down assure the most efficient (minimal) power consumption.
- **Scheduled Power:** Automatically power on or turn off your Iomega StorCenter at a pre-selected time schedule.
- **Wake-On-LAN:** Powers on your Iomega StorCenter when a "magic-packet" wake-up signal is sent over the network.(Wake-On-LAN magic packet application not included)

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Print Server: Intelligent print sharing capability for up to 3 USB printers connected to the **StorCenter** px4-300r.

Uninterruptible Power Supply (UPS) Support: Enables unattended system shutdown via the USB port without data loss in the case of power failure.

Simple Management using the web UI – either local or remote.

Configuration Backup and Restore: allows you to back up and restore system configuration information. Backing up a configuration saves various system properties, including users, groups, device identification, and Share names and permissions.

System Status: Consolidated resource on space utilization, device information, and status. In addition, you can manage controls such as device restart from here.

SMART Hard Drive Monitor: Continually monitors and reports on the health of all drives in the Iomega StorCenter system.

Reporting: Email alerts and Event Logging provide up-to-the-minute updates on the status of your device even when you are away from your computer. SNMP agent monitoring helps administrators centrally manage the **StorCenter** px4-300r.

Iomega® Personal Cloud: Iomega Personal Cloud is a patent-pending, web-based computing architecture that connects your Iomega StorCenter™ Network Storage Array devices to other individuals and/or devices via the Internet

Software Compatibility: Compatible with today's most common backup software, web browsers, media devices and computers.

Warranty: 3 year limited warranty (with product registration)

Benefits

Virtualization

- Iomega StorCenter devices are certified for Citrix® XenServer™ 5.6, Windows Server 2003, Windows Server 2008, and Windows Server 2008 R2, VMware® vSphere 5.0 which makes them the most cost-effective solution for server virtualization.

Video Surveillance Camera:

- Built in support for up to 12 UPnP (universal plug and play) network cameras by Axis® , Bosch, and Panasonic to capture and store video without the need of a dedicated PC. IP cameras from other manufacturers can record to a Share, but are not automatically discovered. Video is encoded as MPEG-4. Support for high-definition(720p) and configurable resolution settings.
- Embedded Axis Video Hosting System solution (AVHS) for local to hosted cloud video storage and management.
- Combines StorCenter's smart storage with leading video management systems SoleraTec®, MindTree® or EMC® Lifeline Native App for an integrated all-in-one solution

Powerful Backup Functionality

- Backup *all* the computers on your network simply by downloading and installing the available client backup software.
- **Symantec Backup:** Iomega StorCenter network storage products are identified as compatible disk targets for Backup Exec software.
- **Iomega Personal Cloud Backup:** Synchronize data between personal cloud member systems and the px4-300r.
- **Public Cloud Backup:** Use one of the integrated 3rd party cloud-based storage services such as Amazon S3, Atmos or MozyConnect™ to replicate data from your px4-300r to your public cloud account.
- **Cloud Disaster Recovery:** Utilize two px4-300r devices in different locations and the Iomega Personal Cloud function to create your own disaster recovery scheme.
- **+Atmos Cloud Folder Mirroring:** With Atmos enabled by a service provider, single folders on your Iomega StorCenter device can be mirrored to Atmos.
- **Deduplicating Backup with EMC Avamar –** With Avamar support, users have the industry's first storage product that natively supports EMC's industry-leading Avamar sub-file deduplication for remote office/branch office (ROBO) backup.
- **Apple® Time Machine™ Backup:** Compatible backup target

Total Data Protection:

- **Native security support** with robust username and password authorized access. Create additional users and secure their content with password protection.
- **Encrypted Volume:** Allows you to create an encrypted volume with an assigned password; thus securing the data on the encrypted volume.
- **User Quotas:** Easily manage capacity by setting maximum limits per user.
- **RSA® BSAFE®** technology protects installs and upgrades.
- **Data Protection Software:** Iomega's QuikProtect™ backup software is available for download.

Specifications

- 1U form factor. Less than 20" depth accommodates shallow racks
- Intel Celeron E1500 Dual Core @ 2.2GHz, with 2GB RAM
- 4 x 3.5" Hot swap SATA-II Server Class hard disk drives

Reliability MTBF	1,200,000 hours
Latency/seek time	4.17 msec
Rotational Vibration Sensor	Yes
Spindle Speed	7200

- **RAID Levels: RAID 0, 1, 10, 5, and 5+hot spare** (Note: all disks within a single RAID/storage pool should be the same capacity, speed, and manufacturer. Mixing different types of drives may result in unpredictable behavior)
- 2 x RJ45 10/100/1000Mbps (GbE) Ethernet ports LAN standards: IEEE 802.3, IEEE 802.3u
- 3 x USB 2.0 ports (to connect external HDD, printers, UPS, Bluetooth dongle)
- PCIe x 4 slot
- iSCSI LUNs - up to 256 LUNs
- Client computers for file system access
  - Windows PC, Mac OS, Linux
- AC Voltage 100-240 VAC
- Power consumption – 170 Watts (max)
- Acoustic noise – 40 dBA maximum

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- User interface localized for English, French, Italian, German, Spanish, Brazilian Portuguese, Russian, Traditional Chinese, Simplified Chinese, Korean, Japanese, Arabic, Hebrew, Turkish, Swedish, and Polish

Certifications

The Iomega® StorCenter™ px4-300r Network Storage Array has received the following certifications:

- VMware vSphere™ 5.0, iSCSI
- Windows® Server 2003 and Windows Server 2008, and 2008 R2 including Microsoft® Cluster Server and Hyper-V Live Migration.
- XenServer™, 5.6 (w/ MPIO), iSCSI & NFS

Contents

- Iomega® StorCenter™ px4-300r Network Storage Array
- Ethernet cable
- Power supply
- Printed Quick Start Guide
- Solutions CD with:
  - Iomega Storage Manager software
  - User Help Documentation

System Requirements

- Available 10/100/1000 Mbps network Ethernet port (required).
- Internet Explorer 7, Firefox® 3.x, Safari 3 or later browser.
- CD or DVD drive to install software.

- Personal cloud and remote access specific requirements:
  - Internet connection
- Universal Plug and Play (UPnP™) compatible router, or administrative rights to port forward.
- To implement Personal Cloud, the user must have the ability to expose a specific port to the internet
- Recommended minimum sustained connection speeds for a good Personal Cloud experience.
- Download: 2.5 Mbit/s
- Upload: 500Kbit/s
- Personal Cloud is not compatible with Active Directory
- Personal Cloud is not compatible with XP 64 bit

PC Users:

- Microsoft® Windows® XP / Vista / 7 (all versions - exclusive of XP 64 bit for Personal Cloud)

Mac® Users:

- Mac OS X 10.5 – 10.7

Linux® Users

- Redhat Enterprise Linux 4/5 Desktop/Workstation, Ubuntu 7.10 – 10.10, Fedora 7/8, Fedora Core 5/6, OpenSUSE 10.3- 11.3, Debian 4

Weight and Dimensions

Unit Information	Single Package Information	Pallet Information
20“ x 17“ x 1.7“ 510mm x 430mm x 43.6mm (Depth x Width x Height) Weight 17.2 lbs (7.8 Kg) w/o HDDs Weight 33 lbs (15 Kg) with HDDs	28“ x 23.6“ x 7“ 710mm x 600mm x 180mm Weight 28.94 lbs (13.1 Kg) w/o HDDs Weight 34 lbs (15.3 Kg) with HDDs	48” x 28.35” x 39” 1219mm x 720mm x 988mm , Total weight: 1477 lbs. (670 Kg.) w/o HDDs Total weight: 1765 lbs. (800 Kg.) with HDDs

All dimensions LxWxH and are approximations

Ordering Information

Capacity	Configuration	Model Name	SKU	UPC Code
0TB	4 x empty drive carrier	StorCenter px4-300r Network Storage Array, 0TB, LA	35790	742709357909
4TB	4 x 1TB HDD	StorCenter px4-300r Network Storage, Server Class Series, 4TB (4 x 1TB)	35946	742709359460
8TB	4 x 2TB HDD	StorCenter px4-300r Network Storage, Server Class Series, 8TB (4 x 2TB)	35945	742709359453
12TB	4 x 3TB HDD	StorCenter px4-300r Network Storage, Server Class Series, 12TB (4 x 3TB)	35947	742709359477
Accessories				
Redundant Power Supply		HOT SWAPPABLE POWER SUPPLY FOR PX4-300R	35667	742709356674
HDD		NAS DRIVE 1TB HDD BARE FOR PX SERIES	35950	742709359507
HDD		NAS DRIVE 2TB HDD BARE FOR PX SERIES	35949	742709359491
HDD		NAS DRIVE 3TB HDD BARE FOR PX SERIES	35948	742709359484
SSD		NAS SSD 128GB HDD BARE FOR PX SERIES	35537	742709355370
SSD		NAS SSD 256GB HDD BARE FOR PX SERIES	35860	742709358609
Service Plans				
Enhanced Service Plan px4 – 3 year, 24/7 phone support, NBD on-site			35698	742709356988
Enhanced Service Plan px4 – 5 year, 24/7 phone support, NBD on-site			35701	742709357015
Premium Service Plan px4 – 3 years, 24/7 phone support, 4-hour on-site, 1TB spares kit			36014	742709360145
Premium Service Plan px4 – 3 years, 24/7 phone support, 4-hour on-site, 2TB spares kit			36015	742709360152
Premium Service Plan px4 – 3 years, 24/7 phone support, 4-hour on-site, 3TB spares kit			36016	742709360169
Premium Service Plan px4 – 5 years, 24/7 phone support, 4-hour on-site, 1TB spares kit			36017	742709360176

Premium Service Plan px4 – 5 years, 24/7 phone support, 4-hour on-site, 2TB spares kit	36018	742709360183
Premium Service Plan px4 – 5 years, 24/7 phone support, 4-hour on-site, 3TB spares kit	36019	742709360190

Additional Product Images